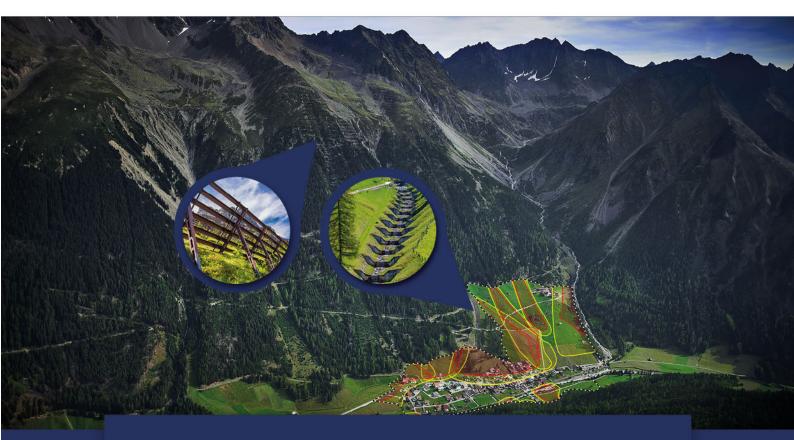
Wildbach- und Lawinenverbauung Forsttechnischer Dienst







INAC CONFERENCE INDUSTRY MEETS SCIENCE

MAY 5-7 CONGRESS INNSBRUCK

PROGRAM



CONTENT

WELCOME

Welcome to the INAC 2025!

It is our great pleasure to cordially invite you to participate in the **Inter-Alpine Natural Hazards Conference** (INAC 2025, Innsbruck), which will be held from Monday, 5th May to Wednesday, 7th May 2025, at the Congress Innsbruck, Austria.

Industry Meets Science

The Inter-Alpine Natural Hazards Conference (INAC) has the overarching goal of merging the knowledge of key actors, decision makers and operators in industry, infrastructure, engineering and research. In conjunction with the world leading international trade fair INTERALPIN the INAC adds additional value for sustainable protection approaches in natural hazards and risk management.

Focal points of the conference are technical protection measures, nature-based solutions and innovative safety concepts for natural hazard processes, such as snow avalanches, debris flows, floods, rockfall or storms in a rapidly adapting alpine environment and changing climate conditions.

Target Groups

- ✓ Science and research
- ✓ Application industries, manufacturers and producers who deal with measures to detect and prevent natural hazards
- ✓ Relevant authorities, entities, institutions and organizations
- ✓ Municipalities and federal states
- ✓ Infrastructure companies in the road, rail and mountain railroad sectors
- ✓ Engineering and planning offices

We are very much looking forward to welcoming you to Innsbruck, Austria!

The INAC Organizing Committee

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PROGRAM OVERVIEW

Monday, 5th May 2025

| | Congress Innsbruck | | |
|--|--|--|--|
| 01.45 pm - 02.00 pm Congress Opening | | | |
| 02.00 pm - 03.15 pm Session 1: Natural Hazard Management in an Adapting Alpine Environment | | | |
| 02.00 pm - 02.15 pm | Managing Alpine Hazards in a Changing Climate - Challenges and Solutions | | |
| 02.15 pm – 02.30 pm | How Does Climate Change Affect the Snow Conditions and Snowmaking Capabilities of Ski Areas in Austria? | | |
| 02.30 pm– 02.45 pm | Natural Hazard Management and Change Processes in Ski Resorts | | |
| 02.45 pm – 03.00 pm | Avalanche Mitigation in a Changing Climate and Its Public Perception in Austria | | |
| 03.00 pm – 03.15 pm | Monitoring of Glacier Risks at a Regional Scale | | |
| 03.15 pm – 04.00 pm | Coffee Break | | |
| 04.00 pm – 5.15 pm | Session 2: Gravitational and Hydrological Hazard Processes in a Changing Climate | | |
| 04.00 pm – 04.15 pm | Runoff Processes in Alpine Catchments - Characteristics, Triggers and their Changes | | |
| 04.15 pm – 04.30 pm | New Normative and Digital Instruments in Avalanche Protection | | |
| 04.30 pm – 04.45 pm | Rock Fall and Rock Avalanches in the High Alpine Environment | | |
| 04.45 pm – 05.00 pm | Lessons learnt from the Debris Floods that Occured During Storm Alex, 02/10/2020 (French Maritime Alps) | | |
| 05.00 pm – 05.15 pm | Marmolada Glacier, July 3, 2022: from the Collapse to the Rescue, from Monitoring for Safety Purposes to the Understanding of the Causes of the Event | | |
| 05.15 pm - 05.40 pm | Symposium: Monitoring Site Ranalt – Flexible Barrier Designed for Catching Avalanches Exposed to an Unexpected Debris Flow Event | | |
| 06.00 pm | Welcome Reception | | |

Wednesday, 7th May 2025

| | INTERALPIN @ Messe Innsbruck | | |
|---|--|--|--|
| 11.15 am – 12.15 pm INTERALPIN Inspiration Days: Focus on Natural Hazards | | | |
| 11.15 am – 11.45 am | Natural Hazard Management in an Adapting Alpine Environment and Compound Events and Cascading Process Chains – A Cross Section | | |
| 11.45 am – 12.15 pm | Gravitational and Hydrological Hazard Processes in a Changing Climate and Sustainable Protection Measures and Safety Concepts – A Cross Section | | |
| 12.15 pm – 18.00 pm Open INTERALPIN VISIT | | | |

PROGRAM OVERVIEW

Tuesday, 6th May 2025

| | Congress Innsbruck | |
|---------------------|---|--|
| 09.00 am - 10.30 am | Session 3: Sustainable Protection Measures and Safety Concepts | |
| 09.00 am – 09.15 am | Climate Risk Assessment Approaches for the Infrastructure Sector: Insights from National and International Projects | |
| 09.15 am – 09.30 am | Global Change Impacts on Avalanche Protective Forests: What Do We Know and Where Do We Grow from Here? | |
| 09.30 am – 09.45 am | Central Office for Engineering Structures and Georisks: Management of Geohazards on Roads of the Bavarian Road Administration and the Monitoring of Protective Structures Against Alpine Natural Hazards | |
| 09.45 am – 10.00 pm | Non-Structural Mitigation Measures: the Experience of the Debris Flow Warning in the Boite Valley, Dolomites (Veneto Region, Italy) | |
| 10.00 am – 10.15 am | Safety Concepts for Remote Avalanche Control Systems - Example from Switzerland | |
| 10.15 am – 10.30 am | Road Protection in Tyrol Using Examples from the Landeck District | |
| 10.30 am - 11.15 am | Coffee Break | |
| 11.15 am – 12.45 pm | Session 4: Compound Events and Cascading Process Chains | |
| 11.15 am – 11.30 am | Compound and Cascading Processes – New Challenges Ahead? | |
| 11.30 am – 11.45 am | Risk Management in the Field of Weather and Avalanche Warning Services for Railway Infrastructure Providers | |
| 11.45 am – 12.00 pm | Hazard Mapping in Norway: A Multi Process Site with a Long History | |
| 12.00 pm – 12.15 pm | Torrent Processes and Climate Changes - Protective Engineering Adaptation Strategies from Practical Engineering Experience | |
| 12.15 pm – 12.30 pm | Historical Experiences on Avalanche Mitigation in Widespread Settlements in Norway and Demands on Future Development | |
| 12.30 pm – 12.45 pm | Guideline for Reducing the Impact of Forest Roads on Surface Runoff | |
| 12.45 pm – 03.00 pm | Lunch Break | |
| | INTERALPIN @ Messe Innsbruck | |
| 03.00 pm – 05.30 pm | Session 5: Innovative Solutions for Natural Hazards - Industry Sessions | |
| | Congress Innsbruck | |
| 07.30 pm | Snow Crystal Gala | |

COMMITTEES

INAC Organizing Committee

BFW (Austrian Research Centre for Forests)

WLV (Forest Engineering Service for Torrent and Avalanche Control)

CMI (Congress Messe Innsbruck)



 Wildbach- und Lawinenverbauung Forsttechnischer Dienst



Program Committee

Bayrische Landesamt für Umwelt DCNA (Disaster Competence Network Austria) GeoSphere Austria **INFRA 2050 INTERPRAEVENT** Association University of Innsbruck NVE (Norwegian Water Resources and Energy Directorate) ÖBB (Österreichische Bundesbahnen) WSL (Forschungsanstalt für Wald, Schnee und Landschaft) we4DRR (woman exchange for Disaster Risk Reduction) WPMMW (Working Party on the Management of Mountain Watersheds) Agentur für Bevölkerungsschutz – Autonome Provinz Bozen – Südtirol Standortagentur Tirol NGI (The Norwegian Geotechnical Institute) BFW (Austrian Research Centre for Forests) WLV (Forest Engineering Service for Torrent and Avalanche Control) CMI (Congress Messe Innsbruck)

CONTACT

Congress Organization

PCO Tyrol Congress Rennweg 3 A-6020 Innsbruck T: +43 (0) 512 575600 E: <u>inac@cmi.at</u>

Congress Innsbruck

A-6020 Innsbruck

Messe Innsbruck

Ing.-Etzel-Straße 31

A-6020 Innsbruck



cmi congress innsbruck



Website

Venues

Rennweg 3

inac-conference.com

VENUE

Congress Innsbruck

INAC 2025 will be held at Congress Innsbruck starting with the Congress Opening on Monday, $5^{\rm th}$ May 2025.

The venue Congress Innsbruck is situated right at the city centre making it possible for visitors of congresses to enjoy a car-free stay. The award-winning event venue offers a wide range of space and is geared to cater for individual requirements and wishes – from compact seminars to major congresses.

INTERALPIN 2025 (Industry Session) & INTERALPIN Inspiration Days

The last session of the congress will be held as **guided tours at the INTERALPIN** trade fair, which is the world's leading trade fair for alpine technologies.

The INTERALPIN takes place at Messe Innsbruck, which is located just a few minutes' walk from the Imperial Gardens and Tyrol's largest exhibition center.

INTERALPIN is the leading international trade fair for alpine technologies and a central meeting point for the industry. It brings together innovative solutions and the latest developments in the fields of ropeway technology, snow management, slope grooming, access control, safety, the leisure industry and much more. Experts from all over the world use INTERALPIN, which will take place from Tuesday, 6th May to Friday, 9th May 2025, to exchange ideas, network and discover pioneering technologies that are revolutionizing Alpine tourism and urban transportation.

The INTERALPIN Inspiration Days consist of top-class keynotes, specialist presentations and panel discussions on various topics such as innovation, marketing, digitalization, sustainability and, this year, a focus on natural hazards.

REGISTRATION

Online registration for the congress is open.

Early Registration Fee until 9th March 2025, 11:59 pm. Regular Registration Fee from 10th March 2025, until 4th May 2025, at 11:59 pm. Please register for the congress at <u>inac-conference.com</u>

You are also welcome to register directly on site at Congress Innsbruck from Monday, $5^{\rm th}$ May, 2025.

Registration Fees

| Early Registration Fee until 9 th March 2025 | |
|--|---------|
| Full Congress | 340,00€ |
| Young Researcher and Young Professionals* | 125,00€ |

| Regular Registration Fee from 10 th March until 4 th May 2025 | |
|--|---------|
| Full Congress | 360,00€ |
| Young Researcher and Young Professionals* | 125,00€ |

| On Site Registration Fee from 5 th May 2025 | |
|---|---------|
| Full Congress | 380,00€ |
| Young Researcher and Young Professionals* | 125,00€ |

*Proof of studies is required.

REGISTRATION

REGISTRATION

Conference Registration Fee includes:

- ✓ Welcome Reception on 5th May 2025
- ✓ Participation in all sessions
- ✓ Coffee breaks
- ✓ Lunch on 6th May 2025
- ✓ Visit of INTERALPIN

Conference Registration Fee does NOT include:

- ✓ Participation in the Snow Crystal Gala 6th May 2025
- ✓ Accommodation

Registration Details

Registration will only be confirmed upon receipt of payment as well as proof of studies if required.

If the registration full payment has not been received by the early registration deadline indicated, the registration will be cancelled OR the next category or registration fee will automatically be charged.

Cancellation Policy – Conference Registration

General cancellation policy

Notification of cancellation must be made in writing and sent to the Registration team by email no later than 5th April 2025 at 23:59 CEST. An administrative fee equivalent of EUR 50.00 will be deducted from the amount to be reimbursed. No refunds will be made for cancellations received as of 6th April 2025 or for unattended sessions or early termination of attendance.

Cancellation policy - Snow Crystal Gala

Notification of cancellation must be made in writing and sent to the Registration team by email. The Snow Crystal Gala can be cancelled free of charge up to and including 5th April 2025 at 23:59 CEST. No refunds will be made after this date.

Group registrations

For inquiries about group registrations, please send an e-mail to <u>inac@cmi.at</u> Please state the number of registrations, the desired registration type and the billing address.

Data Protection

For your registration for the INAC 2025, the collection, storage and processing of your personal data is unavoidable. This is done exclusively for the purpose of organizing and running the event. Your data will only be passed on to third parties who are directly involved in the congress process and if the organizational process requires this (organizers).

You will receive further details on data protection when you register for the congress.

SOCIAL EVENTS

Social Events

Welcome Reception

Monday, 5th May 2025 | 6.00 pm Venue: Congress Innsbruck, Kristallfoyer

The Welcome Reception is free of charge for all congress participants! Drinks and snacks will be provided.

Snow Crystal Gala

Tuesday, 6th May 2025 | 7.30 pm (cocktail reception at 6.30 pm) Venue: Congress Innsbruck, Dogana

The Snow Crystal Gala is an exclusive event with culinary delights, live bands and artists. One of the many highlights of this evening will be the presentation of the "ÖSV Schneekristall des Wintersports" award. This award is given in recognition of outstanding achievements in popularizing winter sports.

You can book your ticket in the registration process – drinks and food is included.

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PROGRAM – Monday, 5th May 2025

PROGRAM – Monday, 5th May 2025

| | Congress Innsbruck | 03.15 pm – 04.00 pm | Coffee Break |
|---------------------|---|---------------------|---|
| 01.45 pm – 02.00 pm | Congress Opening | 04.00 pm – 5.15 pm | Session 2: Gravitational and Hydrological Hazard Processes in a Changing Climate Chair: R. Hofmann, University of Innsbruck |
| 02.00 pm – 03.15 pm | Session 1: Natural Hazard Management in an Adapting Alpine Environment Chair: M. Keiler, we4DRR/University of Innsbruck/Austrian Academy of Sciences | 04.00 pm – 04.15 pm | Runoff Processes in Alpine Catchments - Characteristics, Triggers and their Changes G. Meißl, University of Innsbruck |
| 02.00 pm – 02.15 pm | Managing Alpine Hazards in a Changing Climate - Challenges and Solutions F. Rudolf-Miklau, Austrian Service for Torrent and Avalanche Control (WLV) | 04.15 pm – 04.30 pm | New Normative and Digital Instruments in Avalanche Protection F. Oesterle, Austrian Research Centre for Forests (BFW)/Austrian Service for Torrent and Avalanche Control (WLV); M. Granig, Austrian Service for Torrent and Avalanche |
| 02.15 pm – 02.30 pm | How Does Climate Change Affect the Snow Conditions and Snowmaking Capabilities of Ski Areas in Austria? S. Drechsel, GeoSphere Austria | 04.30 pm – 04.45 pm | Control (WLV) Rock Fall and Rock Avalanches in the High Alpine Environment |
| 02.30 pm – 02.45 pm | Natural Hazard Management and Change Processes in Ski Resorts R. Klier, Wintersport Tirol AG | 04.45 pm – 05.00 pm | C. Zangerl, BOKU University Lessons learnt from the Debris Floods that Occured During Storm Alex, 02/10/2020 (French Maritime Alps) |
| 02.45 pm – 03.00 pm | Avalanche Mitigation in a Changing Climate and Its Public Perception in Austria I. Reiweger, BOKU University | | C. Misset, French National Forestry Office (ONF) |
| 03.00 pm – 03.15 pm | Monitoring of Glacier Risks at a Regional Scale F. Troilo, Fondazione Montagna sicura | | |

PROGRAM – Monday, 5th May 2025

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PROGRAM – Tuesday, 6th May 2025

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- 05.00 pm 05.15 pmMarmolada Glacier, July 3, 2022: from the Collapse to the
Rescue, from Monitoring for Safety Purposes to the
Understanding of the Causes of the Event
M. Gaddo, Office of Forecasting and Planning, Province of
Trento
- 05.15 pm 05.40 pmSymposium: Monitoring Site Ranalt Flexible BarrierDesigned for Catching Avalanches Exposed to an
Unexpected Debris Flow Event

06.00 pm

Welcome Reception

PROGRAM – Tuesday, 6th May 2025

Congress Innsbruck

| 09.00 am – 10.30 am | Session 3: Sustainable Protection Measures and Safety Concepts Chair: W. Gallmetzer, Civil Protection Agency, Province of Bolzano |
|---------------------|---|
| 09.00 am – 09.15 am | Climate Risk Assessment Approaches for the Infrastructure Sector: Insights from National and International Projects J. Schmieder, alpS GmbH; K. Schneeberger, alpS GmbH |
| 09.15 am – 09.30 am | Global Change Impacts on Avalanche Protective Forests: What Do We Know and Where Do We Grow from Here? M. Teich, Austrian Research Centre for Forests (BFW) |
| 09.30 am – 09.45 am | Central Office for Engineering Structures and Georisks: Management of Geohazards on Roads of the Bavarian Road Administration and the Monitoring of Protective Structures Against Alpine Natural Hazards A. Koch, Zentralstelle Ingenieurbauwerke und Georisiken (ZIG) der Bayerischen Staatsbauverwaltung |

PROGRAM – Tuesday, 6th May 2025

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| 09.45 am – 10.00 am | Non-Structural Mitigation Measures: the Experience of the Debris Flow Warning in the Boite Valley, Dolomites | 11.45 am – 12.00 pm | Hazard Mapping in Norway: A Multi Process Site with a Long History |
|---------------------|---|---------------------|---|
| | (Veneto Region, Italy) | | K. Bergbjørn, Norwegian Water Resources and Energy |
| | M. Cesca, Regional Agency for Environmental Prevention and Protection, Veneto Region | | Directorate (NVE); M. Hannus, SWECO |
| | | 12.00 pm – 12.15 pm | Torrent Processes and Climate Changes - Protective |
| 10.00 am – 10.15 am | Safety Concepts for Remote Avalanche Control Systems - | | Engineering Adaptation Strategies from Practical |
| | Example from Switzerland | | Engineering Experience |
| | L. Stoffel, WSL Institute for Snow and Avalanche Research (SLF) | | M. Moser, Austrian Service for Torrent and Avalanche Control (WLV); L. Puschmann, Austrian Service for Torrent and |
| 10.15 am – 10.30 am | Road Protection in Tyrol Using Examples from the | | Avalanche Control (WLV) |
| | Landeck District | | |
| | R. Zach, Land Tirol | 12.15 pm – 12.30 pm | Historical Experiences on Avalanche Mitigation in |
| | | | Widespread Settlements in Norway and Demands on |
| 10.30 am – 11.15 am | Coffee Break | | Future Development |
| 11.15 am – 12.45 pm | Session 4: Compound Events and Cascading Process | | P. Gauer, Norwegian Geotechnical Institute (NGI) |
| | Chains | 12.30 pm – 12.45 pm | Guideline for Reducing the Impact of Forest Roads on |
| | Chair: S. Wernhart, Disaster Competence Network Austria | | Surface Runoff |
| | (DCNA) | | C. Karnitschar, Amt der Kärntner Landesregierung, Wasserwirtschaft |
| 11.15 am – 11.30 am | Compound and Cascading Processes – New Challenges | | |
| | Ahead? | 12.45 pm – 03.00 pm | Lunch Break |
| | N. Salzmann, WSL Institute for Snow and Avalanche Research (SLF) | | |
| 11.30 am – 11.45 am | Risk Management in the Field of Weather and Avalanche Warning Services for Railway Infrastructure Providers C. Rachoy, ÖBB-Infrastruktur AG | | |

PROGRAM – Wednesday, 7th May 2025

PROGRAM – Wednesday, 7th May 2025

PROGRAM – Tuesday, 6th May 2025

| | Messe Innsbruck | | Messe Innsbruck |
|---------------------|---|---------------------|--|
| 03.00 pm – 05.30 pm | Session 5: Innovative Solutions for Natural Hazards - Industry Sessions Chair: S. Hupfau, Congress Messe Innsbruck Guided tour of INTERALPIN trade fair with stops at selected exhibitors | 11.15 am – 12.15 pm | INTERALPIN Inspiration Days Focus on Natural Hazards Discussion: J. Fischer, Austrian Research Centre for Forests (BFW); G. Walter, Austrian Service for Torrent and Avalanche Control (WLV); R. Klier, Wintersport Tirol AG |
| | Congress Innsbruck | 11.15 am – 11.45 am | Natural Hazard Management in an Adapting Alpine Environment and Compound Events and Cascading Process Chains – A Cross Section |
| 07.30 pm | Snow Crystal Gala An evening event with culinary delights, live bands and | | M. Keiler, we4DRR/University of Innsbruck/Austrian Academy of Sciences |
| | artists | 11.45 am – 12.15 pm | Gravitational and Hydrological Hazard Processes in a Changing Climate and Sustainable Protection Measures and Safety Concepts – A Cross Section F. De Polo, Civil Protection Agency, Province of Bolzano |
| | | 12.15 pm – 18.00 pm | Open INTERALPIN VISIT |

SPEAKERS & CHAIRS

Karin **Bergbjørn**, Norwegian Water Resources and Energy Directorate (NVE) Matteo Cesca, Regional Agency for Environmental Prevention and Protection. Veneto Region Fabio De Polo. Civil Protection Agency. Province of Bolzano Susanne Drechsel, GeoSphere Austria Jan-Thomas **Fischer**, Austrian Research Centre for Forests (BFW) Mauro Gaddo, Office of Forecasting and Planning, Province of Trento Willigis Gallmetzer, Civil Protection Agency, Province of Bolzano Peter Gauer, Norwegian Geotechnical Institute (NGI) Mathias Granig, Austrian Service for Torrent and Avalanche Control (WLV) Maria Hannus, SWECO *Robert Hofmann, University* of Innsbruck Christina Karnitschar, Amt der Kärntner Landesregierung, Wasserwirtschaft Margreth Keiler, we4DRR/University of Innsbruck/Austrian Academy of Sciences Reinhard Klier, Wintersport Tirol AG Andreas Koch, Zentralstelle Ingenieurbauwerke und Georisiken (ZIG) der Bayerischen Staatsbauverwaltung Gertraud Meißl, University of Innsbruck Clement **Misset**. French National Forestry Office (ONF) Markus Moser. Austrian Service for Torrent and Avalanche Control (WLV)

SPEAKERS & CHAIRS

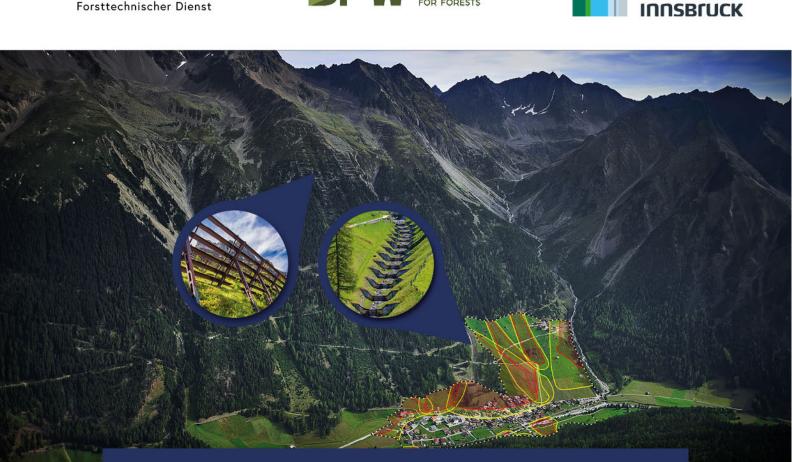
Felix **Oesterle**, Austrian Research Centre for Forests (BFW)/Austrian Service for Torrent and Avalanche Control (WLV) Lisa Puschmann, Austrian Service for Torrent and Avalanche Control (WLV) Christian Rachoy, ÖBB-Infrastruktur AG Ingrid **Reiweger**, BOKU University Florian Rudolf-Miklau, Austrian Service for Torrent and Avalanche Control (WLV) Nadine Salzmann, WSL Institute for Snow and Avalanche Research (SLF) Jan Schmieder, alpS GmbH Klaus Schneeberger, alpS GmbH Lukas Stoffel, WSL Institute for Snow and Avalanche Research (SLF) Michaela **Teich**, Austrian Research Centre for Forests (BFW) Fabrizio Troilo, Fondazione Montagna sicura Gebhard Walter, Austrian Service for Torrent and Avalanche Control (WLV) Susanna Wernhart, Disaster Competence Network Austria (DCNA) Robert Zach, Land Tirol Christian Zangerl, BOKU University

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